

T-CDU UNIDIRECTIONAL OUTPUT DC SIGNAL CONVERTER



The T-CDU unidirectional output dc signal converter converts a dc current or voltage into a load independent dc current or voltage signal capable of driving a number independent instruments.

Power for the unit is derived from a separate supply.

Input, output and supply are galvanically isolated from each other allowing the separation of signal circuits.

The unit conforms to IEC 60688. In addition it meets the insulation requirements of IEC 60255-5, clauses 5, 6 and 8 as well as the high frequency disturbance test of IEC 60255-22-1 for Class III test voltage.

Ordering information:

Model T-CDU, specify input, output and supply voltage.

Specifications

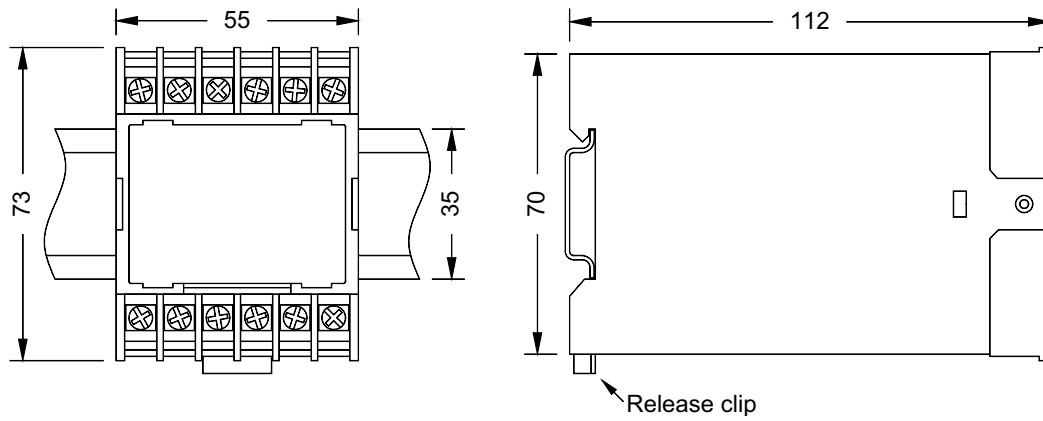
Input	DC current or voltage	
	Standard nominal range (others on request)	$0-I_{nom}$: 0-10mA up to 0-5A $0-V_{nom}$: 0-50mV up to 0-500V
	Accurate range	: 0-120% I_{nom} or V_{nom}
	Burden of input circuit at I_{nom}	: 100mV for $I_{nom} < 1A$: 50mV for $I_{nom} > 1A$
	Burden of input circuit at V_{nom}	: 0.02mA for $V_{nom} < 10V$: 0.10mA for $V_{nom} > 10V$
	Overload capacity	: $2 \times I_{in}$ or V_{nom} continuous : $3 \times I_{in}$ or for V_{nom} 10 seconds
Output	DC Voltage or current proportional to input signal	
	Standard nominal outputs (others on request)	: 0-10mA < 1500 Ohm load : 0-20mA < 750 Ohm load : 4-20mA < 750 Ohm load : 0-5V > 2k Ohm load : 0-10V > 2k Ohm load
	Ripple	: <1% pk to pk
	Response time	: <250ms 0-90% : <500ms 0-99%
	Safe open circuit voltage	: <25V DC
	Clamped output on overload	: <150% of nominal
Supply		: 24V, 110V, 230/240V, 400/415V ac $\pm 20\%$ 2VA : 12V, 24V, 48V, 110V/125V dc $\pm 20\%$ 2W
Accuracy		: Class 0.5 to IEC 60688 : $\pm 0.5\%$ of nominal output over specified accurate range
Isolation	Galvanic isolation between input, output and supply circuits	
	Test voltage	: 4kV rms 50Hz for 1 minute
	Impulse	: 5kV 1.2/50 μ sec waveform
Temperature	Operating	: -10°C to <u>+20°C</u> to +50°C
	Storage	: -20°C to +70°C
Housing	Self extinguishing grey polycarbonate to IP40 snap mounting on top hat rail DIN EN 50022-35	
Terminals	Tinned steel pozi-drive M3 screws with captive square washers suitable for 2 x 2.5mm ² conductors (max).	
	Optional terminal covers raise rating from IP10 to IP20	
EMC Approvals	: AS/NZS 61000.6.3:2012	

CARREL ELECTRADE LTD

MANUFACTURERS, IMPORTERS AND DISTRIBUTORS OF ELECTRICAL ENGINEERING PRODUCTS
 POSTAL ADDRESS: P O BOX 11078, ELLERSLIE 1542, AUCKLAND NEW ZEALAND
 FACTORY AND OFFICE: 661 GREAT SOUTH ROAD, PENROSE 1061
 TELEPHONE: +64-9-525 1753 FACSIMILE: +64-9-525 1756
 CHRISTCHURCH BRANCH: 73B BRISBANE STREET, SYDENHAM
 TELEPHONE: 03-366 1242 FACSIMILE: 03-379 1991
 EMAIL: sales@carrel-electrade.co.nz WEB: www.carrel-electrade.co.nz

T-CDU UNIDIRECTIONAL OUTPUT DC SIGNAL CONVERTER

Dimensions



Connections

